

Abstract

An electrical transmission having two generators (1,2) which are coupled to the output shaft of an internal combustion engine (7) via a step-up reduction gear (5) operating as a transfer case, is characterized by the following features:

- the generators (1, 2) are arranged next to one another;
- two electrical traction motors (8, 9) arranged next to one another are arranged underneath or behind the generators (1, 2);
- a step-down reduction gear (10) is arranged downstream from the electrical traction motors (8, 9) as a summator gear train;
- the step-up reduction gear (5) is integrated in connecting flange (11) between the internal combustion engine (7) and the generators (1, 2) and;
- the dimensions of the electrical transmission are adapted to an automatic transmission to be replaced.

The electrical transmission has a compact design and can replace, in a simple manner, existing automatic transmissions in vehicles powered by an internal combustion engine.

Fig. 1